



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT***(use as many sheets as necessary)***Complete if Known**

Application Number	10/597,599
Filing Date	August 1, 2006
First Named Inventor	Omer EINAV et al
Art Unit	Not yet Available
Examiner Name	Not yet Available
Attorney Docket Number	34626

Sheet

1

of

4

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	US-2002/0064438	30-May-2002	Osborne Jr.	
	2	US-2004/0172097	02-Sep-2004	Brodard et al.	
	3	US-2004/0180768	16-Sep-2004	Almada	
	4	US-2004/0245838	09-Dec-2004	Chiu	
	5	US-2005/0261114	24-Nov-2005	Heitzman et al.	
	6	US-2006/0229164	12-Oct-2006	Einav	
	7	US-2006/0277074	07-Dec-2006	Einav et al.	
	8	US-2006/0293617	28-Dec-2006	Einav et al.	
	9	US-3,919,691	11-Nov-1975	Noll	
	10	US-4,499,900	19-Feb-1985	Petrofsky et al.	
	11	US-4,582,049	14-Apr-1986	Ylvisaker	
	12	US-4,724,842	16-Feb-1988	Charters et al.	
	13	US-4,936,299	26-Jun-1990	Erlandson	
	14	US-5,070,873	10-Dec-1991	Graupe et al.	
	15	US-5,193,539	16-Mar-1993	Schulman et al.	
	16	US-5,193,540	16-Mar-1993	Schulman et al.	
	17	US-5,211,161	18-May-1993	Stef	
	18	US-5,244,441	14-Sep-1993	Dempster et al.	
	19	US-5,269,318	14-Dec-1993	Nashner	
	20	US-5,312,439	17-May-1994	Loeb	
	21	US-5,324,316	28-Jun-1994	Schulman et al.	
	22	US-5,391,128	21-Feb-1995	DeBear	
	23	US-5,397,865	14-Mar-1995	Park	
	24	US-5,405,367	11-Apr-1995	Schulman et al.	
	25	US-5,454,774	03-Oct-1995	Davis	
	26	US-5,466,213	14-Nov-1995	Hogan et al.	
	27	US-5,476,103	19-Dec-1995	Nahsner	
	28	US-5,476,428	19-Dec-1995	Potash et al.	
	29	US-5,662,693	02-Sep-1997	Johnson et al.	
	30	US-5,690,389	25-Nov-1977	Ekman et al.	
Examiner Signature				Date Considered	

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>		
				Application Number	10/597,599	
				Filing Date	August 1, 2006	
				First Named Inventor	Omer EINAV et al	
				Art Unit	Not yet Available	
				Examiner Name	Not yet Available	
Sheet	2	Of	4	Attorney Docket Number	34626	
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	31	US-5,836,304	17-Nov-1998	Kellinger et al.		
	32	US-5,846,086	08-Dec-1998	Bizzi et al.		
	33	US-5,919,115	06-Jun-1999	Horowitz et al.		
	34	US-5,954,621	21-Sep-1999	Jourtas et al.		
	35	US-6,035,465	14-Mar-2000	Rogozinski		
	36	US-6,051,017	18-Apr-2000	Loeb et al.		
	37	US-6,057,828	02-May-2000	Rosenberg et al.		
	38	US-6,061,004	09-May-2000	Rosenberg et al.		
	39	US-6,246,200	12-Jun-2001	Blumenkranz et al.		
	40	US-6,270,445	07-Aug-2001	Dean Jr. et al.		
	41	US-6,478,721	12-Nov-2002	Hunter		
	42	US-6,645,126	11-Nov-2003	Martin et al.		
	43	US-6,774,885	10-Aug-2004	Even-Zohar		
	44	US-6,829,510	07-Dec-2004	Nathan et al.		
<b>FOREIGN PATENT DOCUMENTS</b>						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Documents Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
	45	JP 02-102652	16-Apr-1990	Yokogawa		
	46	EP 0304538	01-Mar-1989	Futakami		
	47	EP 0862930	09-Sep-1998	Riva Violetta et al.		
	48	JP 11-253504	21-Sep-1999	Aoki		
	49	JP 2002-127058	08-May-2002	Kawakami		
	50	JP 2003-164544	10-Jun-2003	Yoshihiro et al.		
	51	PCT WO 02/092164	21-Nov-2002	Brodard et al.		
	52	PCT WO 02/13673	21-Feb-2002	Kotlik et al.		
	53	PCT WO 2004/050172	17-Jun-2004	Koeneman et al.		
	54	PCT WO 2005/074369	18-Aug-2005	Einav		
	55	PCT WO 2005/074370	28-Aug-2005	Einav		
	56	PCT WO 2005/074371	18-Aug-2005	Einav et al.		
	57	PCT WO 2005/074372	18-Aug-2005	Einav et al.		
	58	PCT WO 2005/074373	18-Aug-2005	Einav et al.		
	59	PCT WO 2005/075155	18-Aug-2005	Einav		
	60	PCT WO 2005/087307	22-Sep-2005	Einav et al.		
Examiner Signature				Date Considered		

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

[illegible]

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/597,599
				Filing Date	August 1, 2006
				First Named Inventor	Omer EINAV et al
				Group Art Unit	Not yet Available
				Examiner Name	Not yet Available
Sheet	4	Of	4	Attorney Docket Number	34626
<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	69	Backlife "The Backlife Idea", Product Information, < <a href="http://www.backlife.com">http://www.backlife.com</a> >, 27 P., 2003.			
	70	Bak "The Complex Motion of Standing Still. Hydraulics, Sensors, and Human Modeling Dsta-Unified by Proprietary Software", < <a href="http://www.designnews.com/article/CA73202">http://www.designnews.com/article/CA73202</a> >, 5 P., 2001.			
	71	Burgar et al. "Development of Robots for Rehabilitation Therapy: The Palo Alto VA/Stanford Experience", Journal of Rehabilitation Research and Development, 37(6): 663-673, 2000.			
	72	Cameron et al. "Micromodular Implants to Provide Electrical Stimulation of Paralyzed Muscles and Limbs", IEEE Transactions on Biomedical Engineering, 44(9): 781-790, 1997. Abstract.			
	73	Graupe "EMG Pattern Analysis for Patient-Responsive Control of FES in Paraplegics for Walker-Supported Walking", IEEE Transactions on Biomedical Engineering, 36(7): 711-719, 1989. P.711, l-h Col., Paragraph 1 -r-h Col., Paragraph 1, Figs.3, 5, P.716, l-h Col., Figs.			
	74	Messinger "ReAbility Games: Island Hunt Catch'em Patrol Muzment", Detailed Specifications Document, NOKs Technologies, Version 1.0, 16 P., 2004.			
	75	Micromedical "BalanceQuest: Computerized Dynamic Posturography", Micromedical Technologies, < <a href="http://www.micromedical.com">http://www.micromedical.com</a> >, 6 P., 2001.			
	76	Motek "Motek Medical Rehabilitation: Rehabilitation", < <a href="http://www.e-motek.com">http://www.e-motek.com</a> >, 1 P.			
	77	Peasgood et al. "EMG-Controlled Dosed Loop Electrical Stimulation Using A Digital Signal Processor", Electronics Letters, 36(22): 1832-1833, 2000. P.1832, l-h Col., Paragraph 1, Fig.1, P.1833, r-h Col., Paragraph 1.			
	78	Richardson et al. "Comparing Smooth Arm Movement With the Two-Thirds Power Law and the Related Segmented-Control Hypothesis", The Journal of Neuroscience, 22(18): 8201-8211, 2002.			
	79	Viviani et al. "Minimum-Jerk, Two-Thirds Power Law, and Isochrony: Converging Approaches to Movement Planning", Journal of Experimental Psychology: Human Perception and Performance, 17: 32-53, 1995. Abstract.			
	80	Viviani et al. "Trajectory Determines Movement Dynamics", The Journal of Neuroscience, 7: 431-437, 1982.			
Examiner Signature				Date Considered	

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450